

| Ref # | Hits | Search Query | DBs | Default Operator | Plurals | Time Stamp |
|-------|---------|--|---------------------------------|------------------|---------|------------------|
| S1 | 335757 | loop | USPAT | OR | OFF | 2004/06/22 13:19 |
| S2 | 146794 | reactor | USPAT | OR | OFF | 2004/06/22 13:19 |
| S3 | 2424 | S1 near3 S2 | USPAT | OR | OFF | 2004/06/22 13:18 |
| S4 | 1189926 | agitator impeller blades impellers motor motors pump pumps bladed stirring stirrer | USPAT | OR | OFF | 2004/06/22 13:20 |
| S5 | 664 | S3 same S4 | USPAT | OR | OFF | 2004/06/22 13:19 |
| S6 | 160498 | vane vanes vaned baffle baffles baffled fin fins finned | USPAT | OR | OFF | 2004/06/22 13:20 |
| S7 | 41 | S3 same S6 | USPAT | OR | OFF | 2004/06/22 13:19 |
| S8 | 479556 | loop | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2004/06/22 13:20 |
| S9 | 218093 | reactor | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2004/06/22 13:20 |
| S10 | 2283540 | agitator impeller blades impellers motor motors pump pumps bladed stirring stirrer | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2004/06/22 13:37 |
| S11 | 245158 | vane vanes vaned baffle baffles baffled fin fins finned | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2004/06/22 13:20 |
| S12 | 3165 | S8 near3 S9 | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2004/06/22 13:20 |
| S13 | 2246 | S10 and S12 | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2004/06/22 13:20 |
| S14 | 352 | S11 and S12 | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2004/06/22 13:20 |
| S15 | 294 | S13 and S14 | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2004/06/22 13:20 |
| S16 | 256090 | polymerization polymerize | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2004/06/22 13:20 |
| S17 | 83 | S15 and S16 | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2004/06/22 13:26 |
| S18 | 182870 | slurry | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2004/06/22 13:26 |

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|-----|---------|-------------------------|---------------------------------|----|-----|------------------|
| S19 | 7304 | S16 with S18 | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2004/06/22 13:26 |
| S20 | 743 | S12 and S19 | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2004/06/22 13:26 |
| S21 | 838 | S12 same S10 | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2004/06/22 13:27 |
| S22 | 49 | S12 same S11 | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2004/06/22 13:27 |
| S23 | 133 | S20 and S21 | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2004/06/22 13:27 |
| S24 | 1 | S20 and S22 | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2004/06/22 13:27 |
| S25 | 117 | S23 not S17 | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2004/06/22 13:27 |
| S26 | 1303413 | angle angled | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2004/06/22 13:37 |
| S27 | 17423 | S10 near2 S26 | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2004/06/22 13:38 |
| S28 | 2 | S12 and S27 | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2004/06/22 13:38 |
| S29 | 1491125 | titanium aluminum steel | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2004/06/22 13:39 |
| S30 | 73 | S25 and S29 | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2004/06/22 13:39 |
| S31 | 51864 | S10 with S29 | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2004/06/22 13:39 |
| S32 | 220 | S12 and S31 | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2004/06/22 13:40 |
| S33 | 149 | S18 and S32 | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2004/06/22 13:40 |
| S34 | 139392 | olefin olefins | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2004/06/22 13:40 |

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|-----|--------|---|---|----|-----|------------------|
| S35 | 128 | S33 and S34 | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2004/06/22 13:44 |
| S36 | 569 | kendrick.in. | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2004/06/22 13:44 |
| S37 | 42 | hottovy.in. | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2004/06/22 13:45 |
| S38 | 6 | S29 and S37 | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2004/06/22 13:45 |
| S39 | 1 | ("6239235").PN. | USPAT; USOCR | OR | OFF | 2004/06/22 15:25 |
| S40 | 1 | ("6204344").PN. | USPAT; USOCR | OR | OFF | 2004/06/22 15:49 |
| S41 | 0 | ("impellerbladebladedbladesagitator").PN. | US-PGPUB; USPAT; USOCR; EPO; JPO | OR | OFF | 2004/06/22 15:49 |
| S42 | 446123 | impeller blade bladed blades agitator | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2004/06/22 15:50 |
| S43 | 25774 | bulge | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2004/06/22 15:50 |
| S44 | 348 | S42 with S43 | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2004/06/22 15:50 |
| S45 | 777434 | curve curved | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2004/06/22 15:50 |
| S46 | 136 | S44 and S45 | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2004/06/22 15:50 |
| S47 | 250285 | polymerization | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2004/06/22 15:50 |
| S48 | 6 | S46 and S47 | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2004/06/22 15:52 |
| S49 | 208 | mixed adj pump | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2004/06/22 15:52 |
| S50 | 0 | S43 with S49 | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2004/06/22 15:52 |

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| S51 | 5 | S42 with S49 | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2004/06/22 15:52 |
| S52 | 6 | US-4211863-\$.DID. OR US-5183866-\$.DID. OR US-5387659-\$.DID. OR US-5565175-\$.DID. OR US-6042790-\$.DID. OR US-6239235-\$.DID. | USPAT | OR | OFF | 2005/05/12 18:48 |
| S53 | 5 | ((("5575979") or ("4613484") or ("3565588") or ("4740550") or ("3324093")).PN. | USPAT; USOCR | OR | OFF | 2004/06/12 17:19 |
| S54 | 2 | ((("6319997") or ("6281300")).PN. | USPAT; USOCR | OR | OFF | 2004/06/14 10:15 |
| S55 | 334872 | loop | USPAT | OR | OFF | 2004/06/14 10:21 |
| S56 | 146591 | reactor | USPAT | OR | OFF | 2004/06/14 10:21 |
| S57 | 11913 | loop near3 "4" | USPAT | OR | OFF | 2004/06/14 16:34 |
| S58 | 160966 | agitator impeller blades | USPAT | OR | OFF | 2004/06/22 13:18 |
| S59 | 37501 | vanes | USPAT | OR | OFF | 2004/06/14 10:17 |
| S60 | 18 | (loop near3 "4") with (agitator impeller blades) | USPAT | OR | OFF | 2004/06/14 10:17 |
| S61 | 35 | (loop near3 "4") same (agitator impeller blades) | USPAT | OR | OFF | 2004/06/14 10:17 |
| S62 | 377 | (loop near3 "4") and (agitator impeller blades) | USPAT | OR | OFF | 2004/06/14 10:18 |
| S63 | 158648 | polymerization | USPAT | OR | OFF | 2004/06/14 10:21 |
| S64 | 19 | ((loop near3 "4") and (agitator impeller blades)) and polymerization | USPAT | OR | OFF | 2004/06/14 10:18 |
| S65 | 2420 | loop near3 reactor | USPAT | OR | OFF | 2004/06/14 10:19 |
| S66 | 44 | (agitator impeller blades) with (loop near3 reactor) | USPAT | OR | OFF | 2004/06/14 10:19 |
| S67 | 30 | polymerization and ((agitator impeller blades) with (loop near3 reactor)) | USPAT | OR | OFF | 2004/06/14 10:19 |
| S68 | 74128 | loop | US-PGPUB | OR | OFF | 2004/06/14 10:21 |
| S69 | 21831 | reactor | US-PGPUB | OR | OFF | 2004/06/14 10:21 |
| S70 | 22482 | agitator impeller blades | US-PGPUB | OR | OFF | 2004/06/14 10:21 |
| S71 | 32754 | polymerization | US-PGPUB | OR | OFF | 2004/06/14 10:21 |
| S72 | 534 | loop near3 reactor | US-PGPUB | OR | OFF | 2004/06/14 10:21 |
| S73 | 94 | (agitator impeller blades) and polymerization and (loop near3 reactor) | US-PGPUB | OR | OFF | 2004/06/14 10:22 |

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| S74 | 45 | ((agitator impeller blades) same polymerization) and (loop near3 reactor) | US-PGPUB | OR | OFF | 2004/06/14 10:22 |
| S75 | 2 | ((("6281300") or ("6319997"))).PN. | USPAT; USOCR | OR | OFF | 2004/06/14 13:45 |
| S76 | 2 | ((("20030229187") or ("6239235"))).PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2004/06/14 13:46 |
| S77 | 25 | hottovy.in. | US-PGPUB; USPAT | OR | OFF | 2004/06/14 13:47 |
| S78 | 450 | kendrick.in. | US-PGPUB; USPAT | OR | OFF | 2004/06/14 13:48 |
| S79 | 191402 | polymerization | US-PGPUB; USPAT | OR | OFF | 2004/06/14 13:48 |
| S80 | 26 | kendrick.in. and polymerization | US-PGPUB; USPAT | OR | OFF | 2004/06/14 13:48 |
| S81 | 11913 | loop near3 "4" | USPAT | OR | OFF | 2004/06/14 16:35 |
| S82 | 52231 | vane vanes | USPAT | OR | OFF | 2004/06/14 16:34 |
| S83 | 134 | (loop near3 "4") and (vane vanes) | USPAT | OR | OFF | 2004/06/14 16:34 |
| S84 | 477517 | agitator impeller blades mixer stirring | USPAT | OR | OFF | 2004/06/14 16:35 |
| S85 | 42 | ((loop near3 "4") and (vane vanes)) and (agitator impeller blades mixer stirring) | USPAT | OR | OFF | 2004/06/14 16:35 |
| S86 | 1151 | loop near3 (agitator impeller blades mixer stirring) | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2004/06/14 17:01 |
| S87 | 237918 | vane vanes baffle baffles fin fins | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2004/06/14 16:35 |
| S88 | 394261 | agitator impeller mixer bladed blades | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2004/06/14 16:35 |
| S89 | 75 | (loop near3 (agitator impeller blades mixer stirring)) and (vane vanes baffle baffles fin fins) and (agitator impeller mixer bladed blades) | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2004/06/14 16:36 |
| S90 | 255479 | polymerization polymerize | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2004/06/14 17:13 |
| S91 | 13 | ((loop near3 (agitator impeller blades mixer stirring)) and (vane vanes baffle baffles fin fins) and (agitator impeller mixer bladed blades)) and (polymerization polymerize) | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2004/06/14 16:36 |

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| S92 | 62 | ((loop near3 (agitator impeller blades mixer stirring)) and (vane vanes baffle baffles fin fins) and (agitator impeller mixer bladed blades)) not (polymerization polymerize) | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2004/06/14 16:38 |
| S93 | 76 | (loop near3 (agitator impeller blades mixer stirring)) and (vane vanes baffle baffles fin fins) | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2004/06/14 16:38 |
| S94 | 1 | ((loop near3 (agitator impeller blades mixer stirring)) and (vane vanes baffle baffles fin fins)) not ((loop near3 (agitator impeller blades mixer stirring)) and (vane vanes baffle baffles fin fins) and (agitator impeller mixer bladed blades)) | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2004/06/14 16:38 |
| S95 | 2 | ((("6281300") or ("6319997")).PN. | USPAT; USOCR | OR | OFF | 2004/06/14 16:58 |
| S96 | 33 | ("2285721" "2825721" "2915513" "3152872" "3293000" "3324093" "3625658" "3816383" "3858943" "3956061" "4007321" "4121029" "4199546" "4372758" "4395523" "4424341" "4461889" "4501885" "4589957" "4613484" "4632976" "4690804" "4737280" "4794151" "5183866" "5207929" "5292863" "5391656" "5455314" "5565175" "5575979" "5597892" "6239235").PN. | USPAT | OR | OFF | 2004/06/14 16:38 |
| S97 | 2 | "6319997".URPN. | USPAT | OR | OFF | 2004/06/14 16:41 |
| S98 | 31 | ("2825721" "2915513" "3152872" "3293000" "3324093" "3625658" "3816383" "3858943" "3956061" "4007321" "4121029" "4199546" "4372758" "4395523" "4424341" "4461889" "4501885" "4589957" "4613484" "4632976" "4690804" "4737280" "4794151" "5183866" "5207929" "5292863" "5391656" "5455314" "5565175" "5575979" "5597892").PN. | USPAT | OR | OFF | 2004/06/14 16:41 |
| S99 | 2 | "6281300".URPN. | USPAT | OR | OFF | 2004/06/14 16:42 |
| S100 | 1 | ("6239235").PN. | USPAT; USOCR | OR | OFF | 2004/06/14 17:00 |
| S101 | 62884 | impeller agitator | US-PGPUB; USPAT | OR | OFF | 2004/06/14 17:00 |

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| S10 2 | 1054199 | titanium aluminum steel | US-PGPUB; USPAT | OR | OFF | 2004/06/14 17:00 |
| S10 3 | 3399 | (impeller agitator) with (titanium aluminum steel) | US-PGPUB; USPAT | OR | OFF | 2004/06/14 17:00 |
| S10 4 | 1107 | (polymerization polymerize) and ((impeller agitator) with (titanium aluminum steel)) | US-PGPUB; USPAT | OR | OFF | 2004/06/14 17:03 |
| S10 5 | 3152 | loop near3 reactor | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2004/06/14 17:01 |
| S10 6 | 141 | (loop near3 reactor) and (vane vanes baffle baffles fin fins) and (agitator impeller mixer bladed blades) | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2004/06/14 17:01 |
| S10 7 | 131 | ((loop near3 reactor) and (vane vanes baffle baffles fin fins) and (agitator impeller mixer bladed blades)) not ((loop near3 (agitator impeller blades mixer stirring)) and (vane vanes baffle baffles fin fins) and (agitator impeller mixer bladed blades)) | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2004/06/14 17:01 |
| S10 8 | 35 | ((((loop near3 reactor) and (vane vanes baffle baffles fin fins) and (agitator impeller mixer bladed blades)) not ((loop near3 (agitator impeller blades mixer stirring)) and (vane vanes baffle baffles fin fins) and (agitator impeller mixer bladed blades))) and (polymerization polymerize) | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2004/06/14 17:01 |
| S10 9 | 19 | (loop near3 reactor) and ((impeller agitator) with (titanium aluminum steel)) | US-PGPUB; USPAT | OR | OFF | 2004/06/14 17:13 |
| S11 0 | 106266 | olefin olefins | US-PGPUB; USPAT | OR | OFF | 2004/06/14 17:13 |
| S11 1 | 290588 | polymerization polymerize polymerized | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2004/06/14 17:13 |
| S11 2 | 19398 | (olefin olefins) with (polymerization polymerize polymerized) | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2004/06/14 17:15 |
| S11 3 | 217647 | reactor | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2004/06/14 17:15 |
| S11 4 | 11683 | (titanium aluminum steel) near3 reactor | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2004/06/14 17:15 |

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| S11 5 | 1563 | ((olefin olefins) with (polymerization polymerize polymerized)) and ((titanium aluminum steel) near3 reactor) | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2004/06/14 17:15 |
| S11 6 | 1334137 | construction | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2004/06/14 17:15 |
| S11 7 | 85 | ((((olefin olefins) with (polymerization polymerize polymerized)) and ((titanium aluminum steel) near3 reactor)) and construction | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2004/06/14 17:16 |
| S11 8 | 20 | (impeller agitator) and (((olefin olefins) with (polymerization polymerize polymerized)) and ((titanium aluminum steel) near3 reactor)) and construction) | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2004/06/14 17:16 |
| S11 9 | 6 | US-4211863-\$.DID. OR US-5183866-\$.DID. OR US-5387659-\$.DID. OR US-5565175-\$.DID. OR US-6042790-\$.DID. OR US-6239235-\$.DID. | USPAT | OR | OFF | 2004/06/14 17:18 |
| S12 0 | 2 | (titanium aluminum steel) and (US-4211863-\$.DID. OR US-5183866-\$.DID. OR US-5387659-\$.DID. OR US-5565175-\$.DID. OR US-6042790-\$.DID. OR US-6239235-\$.DID.) | USPAT | OR | OFF | 2004/06/14 17:18 |
| S12 1 | 2288 | mixed adj flow | USPAT | OR | OFF | 2004/12/27 10:53 |
| S12 2 | 370293 | pump | USPAT | OR | OFF | 2004/12/27 10:54 |
| S12 3 | 96 | S121 adj S122 | USPAT | OR | OFF | 2004/12/27 10:54 |
| S12 4 | 162843 | polymerization | USPAT | OR | OFF | 2004/12/27 10:54 |
| S12 5 | 2 | S123 and S124 | USPAT | OR | OFF | 2004/12/27 10:54 |
| S12 6 | 5 | ((("6204344") or ("6239235") or ("5183866") or ("5575979") or ("5565175"))).PN. | USPAT | OR | OFF | 2005/05/11 14:18 |
| S12 7 | 772256 | radial or (mixed adj flow) | US-PGPUB; USPAT; USOCR; EPO; JPO | OR | OFF | 2005/05/12 18:19 |

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|----------|--------|--|---|----|-----|------------------|
| S12 8 | 949538 | pump impeller agitator | US-PGPUB; USPAT; USOCR; EPO; JPO | OR | OFF | 2005/05/12 18:20 |
| S12 9 | 592295 | blade blades | US-PGPUB; USPAT; USOCR; EPO; JPO | OR | OFF | 2005/05/12 18:20 |
| S13 0 | 24531 | S127 with S128 | US-PGPUB; USPAT; USOCR; EPO; JPO | OR | OFF | 2005/05/12 18:21 |
| S13 1 | 2177 | loop adj reactor | US-PGPUB; USPAT; USOCR; EPO; JPO | OR | OFF | 2005/05/12 18:21 |
| S13 2 | 10 | S130 and S131 | US-PGPUB; USPAT; USOCR; EPO; JPO | OR | OFF | 2005/05/12 18:35 |
| S13 3 | 4 | ((("6239235") or ("5183866") or ("5575979") or ("6204344")).PN. | USPAT | OR | OFF | 2005/05/12 18:36 |
| S13 4 | 10694 | S127 and S130 | USPAT | OR | OFF | 2005/05/12 18:36 |
| S13 5 | 0 | S127 and S133 | USPAT | OR | OFF | 2005/05/12 18:36 |
| S13 6 | 1 | ("4740550").PN. | USPAT | OR | OFF | 2005/05/12 18:55 |
| S13 7 | 4 | ((("6204344") or ("6239235") or ("5183866") or ("5575979")).PN. | USPAT | OR | OFF | 2005/05/12 18:55 |
| S13 8 | 464266 | axial | USPAT | OR | OFF | 2005/05/12 18:55 |
| S13 9 | 1 | S137 and S138 | USPAT | OR | OFF | 2005/05/12 18:55 |
| S14 0 | 928403 | radial mixed | USPAT | OR | OFF | 2005/05/12 18:55 |
| S14 1 | 0 | S137 and S140 | USPAT | OR | OFF | 2005/05/12 18:56 |
| S14 2 | 3 | S137 not S139 | USPAT | OR | OFF | 2005/05/12 18:56 |